UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,472	09/15/2003	Binod P. Gangadharan	188297/US	3749
66083 DORSEY & W.	7590 11/24/200 hitnev LLP	EXAMINER		
on behalf of Sur	n Microsystems, Inc.	HENRY, MARIEGEORGES A		
370 SEVENTE SUITE 4700	ENTH ST.	ART UNIT	PAPER NUMBER	
DENVER, CO	80202-5647	2455		
			MAIL DATE	DELIVERY MODE
			11/24/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	ation No.	Applicant(s)		
Office Action Summary		10/663	,472	GANGADHARAN ET AL.		
		Examir	er	Art Unit		
		MARIE	GEORGES HENRY	2455		
The MAI Period for Reply	LING DATE of this commu	nication appears on	the cover sheet with the	e correspondence ad	ddress	
WHICHEVER IS - Extensions of time I after SIX (6) MONT - If NO period for rep - Failure to reply with Any reply received	O STATUTORY PERIOD IN STATUTORY PERIOD IN STATUTORY PERIOD IN STATE IN STAT	MAILING DATE OF s of 37 CFR 1.136(a). In no munication. tatutory period will apply and y will, by statute, cause the a	THIS COMMUNICATION event, however, may a reply be still expire SIX (6) MONTHS from application to become ABANDO	ON. timely filed om the mailing date of this one of the time of	·	
Status						
2a)⊠ This actio 3)⊡ Since this	ve to communication(s) filn is FINAL . application is in condition accordance with the pract	2b)∏ This action is for allowance exce	pt for formal matters, բ		e merits is	
Disposition of Clai	ms					
4a) Of the 5) ☐ Claim(s) _ 6) ☑ Claim(s) _ 7) ☐ Claim(s) _ 8) ☐ Claim(s) _	1-10,17, and 19-31 is/are above claim(s) is/a is/are allowed. 1-10, 17, and 19-31 is/are is/are objected to are subject to restri	are withdrawn from rejected.	consideration.			
Application Papers	5					
10)☐ The drawi Applicant r Replaceme	ication is objected to by the ng(s) filed on is/are nay not request that any objected the declaration is objected the solutions.	ection to the drawing(s g the correction is req	s) be held in abeyance. Soluring if the drawing(s) is a	See 37 CFR 1.85(a). objected to. See 37 C	, ,	
Priority under 35 l	J.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	rson's Patent Drawing Review (sure Statement(s) (PTO/SB/08)		4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:			

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DETAILED ACTION

1. This is in response to the amendment filed on 07/07/2009. Claims 1-10, 17, and 19-

31 are amended. Claims 11-16 and 18 are cancelled. Claims 1-10, 17, and 19-31 are

pending. Claims 1 -10, 17 and 19-31 are related to frameworks for integrating

information systems.

2. This application currently names joint inventors. In considering patentability of the

claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the

various claims was commonly owned at the time any inventions covered therein were

made absent any evidence to the contrary. Applicant is advised of the obligation under

37 CFR 1.56 to point out the inventor and invention dates of each claim that was not

commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or

described as set forth in section 102 of this title, if the differences between the subject

matter sought to be patented and the prior art are such that the subject matter as a

whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-10, 17, and 19-31 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Starkovich** et al (hereinafter "Starkovich") (**US 6, 993, 585 B1**) in view of **Ng (US 6, 411, 956 B1**).

Regarding claim 1, Starkovich discloses a method of connecting an application server to an information system, said method comprising:

providing, utilizing a hardware application server, a generic connector interface on said hardware application server (Starkovich, column 7, lines 41-42, fig. 4, a generic gateway is disclosed in a NT server);

receiving information related to an information system at said hardware application server, said information system having a first interface, said information system accessible utilizing said first interface (Starkovich, column 6, lines 34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status information to a Transaction Gateway client); and

of custom gateway).

connecting, utilizing said hardware application server, said information system to said hardware application server via said customized connector, wherein said customized connector provides access to said information system through said first interface of said information system (Starkovich, column 8, lines 38-47, fig.6, clients of a WebTx access enterprise applications using a processing information made

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Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose a feature generating, utilizing said hardware application server, a customized connector interface on said hardware application server, by modifying said generic connector interface, based on said received information.

Ng discloses a feature generating, utilizing said hardware application server, a customized connector interface on said hardware application server, by modifying said generic connector interface, based on said received information (Ng, column 3, lines 40-44, multiple connections are disclosed dynamically associated with transaction by using JDBC 2.0 Standard Extension driver).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible

connection feature in order to permit a transparent translation between different communication protocols.

Regarding claim 2, Starkovich and Ng disclose the method as recited in claim 1, in addition Starkovich discloses the feature wherein said providing of a generic connector interface comprises providing a software package. (Starkovich, column 8, lines 34-37, Gateway interface customer own application to an OLTP enterprise application).

Regarding claim 3, Starkovich and Ng disclose the method as recited in claim 2, in addition Starkovich discloses the feature wherein said generic connector interface is provided as Resource Adaptor Archive (RAR) file (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available), and wherein said information system is a relational database that is compliant with a Java DataBase Connection (JDBC) architecture (Starkovich, column 7, lines 66-67, class definitions used are JavaGate compatible).

Regarding claim 4, Starkovich and Ng disclose the method as recited in claim 3, in addition Starkovich discloses the feature wherein said generating of said customized connector interface comprises: adding said first interface to said Resource Adaptor Archive (PAR) file (Starkovich, column 8, lines 34-37, a custom gateway allows to build an application interface).

Regarding claim 5, Starkovich and Ng disclose the method as recited in claim 1, in addition Starkovich discloses the feature wherein said providing of a generic connector interface comprises providing a Generic Resource Adaptor Archive (PAR) file (Starkovich, column 8, lines 28-29, a generalized java applet access feature is provided to build gateway).

Regarding claim 6, Starkovich and Ng disclose the method as recited in claim 1, in addition Starkovich discloses the feature wherein said receiving of information related to said information system comprises: receiving one or more parameters (Starkovich, column 8, lines 38-39, key software component are part of the access relationship between a WebTx and enterprise applications).

Regarding claim 7, Starkovich and Ng disclose the method as recited in claim 6, in addition Starkovich discloses the feature wherein said receiving of information related to said information system further comprises receiving said one or more parameters as input through a Graphical User Interface (GUI) (Starkovich, column 7, lines 44-47, data is received in a format that is understandable by a URL).

Regarding claim 8, Starkovich and Ng disclose the method as recited in claim 1, in addition Starkovich discloses the feature wherein said providing of a generic connector interface comprises: providing a software package (Starkovich, column 7, lines 60-61, Software Development Kit libraries are disclosed), and wherein said generating of a

customized connector interface comprises: adding said first interface to said software package (Starkovich, column 8, lines 34-37, a custom Gateway provides a way for a customer to build own gateway to interface their own applications).

Regarding claim 9, Starkovich and Ng disclose the method as recited in claim 1.

Although Starkovich discloses the feature to built customer own gateway to interface own application, he does not explicitly disclose the feature wherein said connecting of said information system to said hardware application server comprises: encapsulating said first interface by a second interface that is implemented after said generic connector interface is customized.

Ng discloses the feature wherein said connecting of said information system to said hardware application server comprises: encapsulating said first interface by a second interface that is implemented after said generic connector interface is customized (Ng, column 3, lines 40-44, instead of creating a new physical database connection for each connection request a global transaction identifier is used in order to make the connection).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information systems in order

to create generic connection for information systems with a flexible connection feature in order to permit a transparent translation between different communication protocols.

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Regarding claim 10, Starkovich and Ng discloses the method as recited in claim 1.

Although Starkovich discloses the feature to built customer own gateway to interface own application, he does not explicitly disclose the feature wherein generating a customized connector interface comprises: generating a second interface that can encapsulate the first interface.

Ng discloses the feature wherein generating a customized connector interface comprises: generating a second interface that can encapsulate the first interface (Ng, column 3, lines 40-44, instead of creating a new physical database connection for second connection request a global transaction identifier is used in order to make the connection).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information systems in order to create generic connection for information systems with a flexible connection feature in order to permit a transparent translation between different communication protocols

Regarding claim 17, Starkovich discloses in a component based computing environment, an apparatus providing a connection interface for connecting an application component to an information system via an application server, comprising:

an application component (Starkovich, column 8, lines 64-65, an application access component is disclosed); an application server, communicably coupled to said application component (Starkovich, column 7, lines 41-42, fig. 4, a generic gateway is disclosed in a NT server); and

a connection interface, implemented by said application server, operable to connect said application server to a first information system, said first information system having a first interface and said first information system accessible utilizing said first interface, via said first interface (Starkovich, column 6, lines 34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status information to a Transaction Gateway client),

wherein said connection interface operable to encapsulate said first interface of said first information system, allowing said application server to establish a connection that connects said application component to said first information system (Starkovich, column 9, lines 34-36, a stub software component is part of a call procedure).

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose wherein said connection interface is a configurable interface configurable to connect said application server to a second information system through a second interface which is different from the first interface.

Ng discloses a feature wherein said connection interface is a configurable interface configurable to connect said application server to a second information system through a second interface which is different from the first interface (Ng, column 3, lines 40-44, instead of creating a new physical database connection for each connection request a global transaction identifier is used in order to make the connection).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible connection feature in order to permit a transparent translation between different communication protocols.

Regarding claim 19, Starkovich and Ng disclose the interface apparatus as recited in claim 17, in addition Starkovich discloses the feature wherein the connector comprises a managed connection factory that is operable to generate a connection factory and

manage a connection between said application component and said first information system (Starkovich, column 10, lines 25-27, a COM-based interface, using stub.dll understands how to communicate over common interface).

Regarding claim 20, Starkovich and Ng disclose the interface apparatus as recited in claim 17, in addition Starkovich discloses the feature wherein said application server comprises a connection manager that is to interact with said managed connection factory (Starkovich, column 9, lines 15-19, a request/response model acting as connection manager discloses is services Open/OLTP).

Regarding claim 21, Starkovich and Ng disclose the connection apparatus as recited in claim 17, in addition Starkovich discloses the feature wherein said application server provides a container-based environment (Starkovich, column 7, lines 66-67, class definitions used are JavaGate compatible), and wherein said application server comprises one or more of the following components: a security service manager, a pool manager, and a transaction manager (Starkovich, column 9, lines 25-26, a transaction manager is disclosed).

Regarding claim 22, Starkovich discloses a method of connecting an application server to an information system, said method comprising:

providing a Generic Resource Adaptor Archive (GRAR) file configurable to access an information system (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available),

said information system having an interface and said information system accessible via said interface, utilizing said interface (Starkovich, column 6, lines 34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status information to a Transaction Gateway client);

opening said Generic Resource Adaptor Archive (GRAR) file (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for opening files);

adding said interface to said Generic Resource Adaptor

Archive (GRAR) file (Starkovich, column 7, lines 60-67, the gateway built has a Java

Libraries available, using a software development kit for adding);

receiving one or more properties associated with said information system (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for receiving);

using the Customized Resource Adaptor Archive (CRAR) file to connect said application server to said first information system (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for connecting).

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose a feature modifying said Generic Resource Adaptor Archive (GRAR) file, based on said one or more properties, to generate a Customized Resource Adaptor Archive (CRAR) file.

Ng discloses a feature modifying said Generic Resource

Adaptor Archive (GRAR) file, based on said one or more properties, to generate a

Customized Resource Adaptor Archive (CRAR) file (Ng, column 3, lines 40-44, multiple

connections are disclosed dynamically associated with transaction by using JDBC 2.0

Standard Extension driver).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information systems in order to create generic connection for information systems with a flexible connection feature in order to permit a transparent translation between different communication protocols.

Regarding claim 23, Starkovich and Ng disclose the method as recited in claim 22, in addition Starkovich discloses the feature wherein said method further comprises: deploying said Customized Resource Adaptor Archive (CRAR) using a deployment tool (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for adding).

Regarding claim 24, Starkovich and Ng disclose the method as recited in claim 23, in addition Starkovich discloses the feature wherein said opening and modifying of said Generic Resource Adaptor Archive (GRAR) file comprises: using a graphical interface associated with a deployment tool to open or modify said Generic Resource Adaptor Archive (GRAR) file (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit having a framework, an GUI, for modifying).

Regarding claim 25, Starkovich and Ng disclose the method as recited in claim 21, wherein said modifying of said Generic Resource Adaptor Archive (GRAR) file comprises: modifying a deployment descriptor (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for modifying).

Regarding claim 26, Starkovich and Ng disclose the method as recited in claim 22, in addition Starkovich discloses the feature wherein said modifying of said Generic

Resource Adaptor Archive (GRAR) file comprises: modifying a deployment descriptor (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for adding).

Regarding claim 27, Starkovich and Ng disclose the method as recited in claim 26, in addition Starkovich discloses the feature wherein said modifying of said deployment descriptor comprises: editing an XML file, using a Graphical user interface (Starkovich, column 7, lines 37-39, a interface having a monitor and HTML component, and Java applet is disclosed).

Regarding claim 28, Starkovich and Ng disclose the method as recited in claim 26, in addition Starkovich discloses the feature wherein said modifying of deployment descriptor comprises: editing one or more of the following properties: a server Name, a port number, a user name, a password, a database name, a data source name, a description, a network protocol, a role name, a login timeout, driver properties, a delimiter, and a class name (Starkovich, column 7, lines 60-67, WebTx system having a Java Libraries available and using a software development is disclosed).

Regarding claim 29, Starkovich discloses a computer readable medium including computer program code for connecting an application server to an information system, system, said computer readable medium comprising:

computer program code, stored in at least one computer readable medium and executable by at least one processing unit, for providing a generic connector interface (Starkovich, column 7, lines 41- 42, fig. 4, a generic gateway is disclosed in a NT server);

computer program code, stored in the at least one computer readable medium and executable by the at least one processing unit, for receiving information related to an information system, said information system having a first interface, said information system accessible utilizing said first interface (Starkovich, column 6, lines 34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status information to a Transaction Gateway client);

computer program code, stored in the at least one computer readable medium and executable by the at least one processing unit (Starkovich, column 5, lines 1-5, a storage feature is disclosed) for connecting said information system to said application server via said customized connector, wherein said customized connector provides access to said information system through said first interface of said information system (Starkovich, column 8, lines 38-47, fig.6, clients of a WebTx access enterprise applications using a processing information made of custom gateway).

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose the feature

computer program code generating a customized connector interface, by modifying said generic connector interface, based on said received information; and

Ng discloses the feature computer program code generating a customized connector interface, by modifying said generic connector interface, based on said received information (Ng, column 3, lines 40-44, multiple connections are disclosed dynamically associated with transaction by using JDBC 2.0 Standard Extension driver).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information systems in order to create generic connection for information systems with a flexible connection feature in order to permit a transparent translation between different communication protocols.

Regarding claim 30, Starkovich and Ng disclose the computer readable medium as recited in claim 29, in addition Starkovich discloses the feature wherein said computer programming code, stored in at least one computer readable medium and executable by at least one processing unit, for providing a generic connector interface comprises: providing a software package (Starkovich, column 8, lines 34-37, Gateway interface own application to an OLTP enterprise application is disclosed).

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Regarding claim 31, Starkovich and Ng disclose the computer readable medium as recited in claim 30, in addition Starkovich discloses the feature wherein said generic connector interface is provided as Resource Adaptor Archive (RAR) file, and wherein said information system is a relational database is compliant with a Java DataBase Connection (JDBC) architecture (Starkovich, column 7, lines 60-67, WebTx system having a Java Libraries available and using a software development is disclosed).

5. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure. Vaitheeswaran et al. (US 2003/0014552 A1) is made part of the record because of the teaching of JDBC driver. Barinov et al. (US 2004/0025171 A1) is made part of the record because of the teaching of object model driver. Chang et al. (US 2003/0045236 A1) is made part of the record because of the teaching of inbuilt driver.

Response to Argument

6. A. <u>The Applicant argues</u> Starkovich does not teach generating a customized connector interface on an application server by modifying a generic connector interface based on received information related to an information system (Remark, page 8, lines 20-21; lies 35-36).

<u>The Examiner disagrees</u> because Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose a feature generating, utilizing said hardware application server, a customized connector interface on said hardware application server, by modifying said generic connector interface, based on said received information.

Ng discloses a feature generating, utilizing said hardware application server, a customized connector interface on said hardware application server, by modifying said generic connector interface, based on said received information (Ng, column 3, lines 40-44, multiple connections are disclosed dynamically associated with transaction by using JDBC 2.0 Standard Extension driver).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible connection feature in order to permit a transparent translation between different communication protocols.

B. <u>The Applicant argues</u> Starkovich does not teach modifying said Generic Resource Adaptor Archive (GRAR) file, based on said one or more properties, to generate a Customized Resource Adaptor Archive (CRAR) file (Remark, page 9, lines 14-16; lines 35-36).

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file.

<u>The Examiner disagrees</u> because Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose a feature modifying said Generic Resource Adaptor Archive (GRAR) file, based on said one or more properties, to generate a Customized Resource Adaptor Archive (CRAR)

Ng discloses a feature modifying said Generic Resource Adaptor Archive (GRAR) file, based on said one or more properties, to generate a Customized Resource Adaptor Archive (CRAR) file (Ng, column 3, lines 40-44, multiple connections are disclosed dynamically associated with transaction by using JDBC 2.0 Standard Extension driver).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information systems in order to create generic connection for information systems with a flexible connection feature in order to permit a transparent translation between different communication protocols.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication from the examiner should be directed to Marie Georges Henry whose telephone number is (571) 270-3226. The examiner can normally be reached on Monday to Friday 7:30am - 4:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see

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http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

/MARIE GEORGES HENRY/

Examiner, Art Unit 2455

/saleh najjar/

Supervisory Patent Examiner, Art Unit 2455